



264974be.app  
SEQUENCE LISTING

<110> CHOO, YEN  
KLUG, AARON  
ISALAN, MARK

<120> NUCLEIC ACID BINDING POLYPEPTIDE LIBRARY

<130> 71278/264974/BET

<140> 09/424,482

<141> 2000-02-29

<150> 09/424,482

<151> 1999-11-23

<150> PCT/GB98/01510

<151> 1998-05-26

<150> GB 9710809.6

<151> 1997-05-23

<160> 114

<170> PatentIn version 2.1

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9

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      1-5 residues

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      3-6 residues

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 1          5          10          15

Xaa Xaa Xaa Xaa Xaa Xaa Xaa His Xaa Xaa Xaa Xaa Xaa Xaa
 20          25          30

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<223> Positions 8-10 may vary in length from  
2-3 residues

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Xaa Cys Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa Phe Xaa Xaa Xaa Xaa Xaa  
1 5 10 15

Leu Xaa Xaa His Xaa Xaa Xaa His  
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Thr Gly Glu Lys  
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<210> 7

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<223> Description of Artificial Sequence: Linker

<400> 7

Thr Gly Glu Lys Pro  
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<210> 8

<211> 26

<212> PRT

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<223> Description of Artificial Sequence: Consensus  
structure sequence

<400> 8

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Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Gln Lys Ser Asp  
1 5 10 15

Leu Val Lys His Gln Arg Thr His Thr Gly  
20 25

<210> 9

<211> 29

<212> PRT

<213> Artificial Sequence

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structure sequence

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Pro Tyr Lys Cys Ser Glu Cys Gly Lys Ala Phe Ser Gln Lys Ser Asn  
1 5 10 15

Leu Thr Arg His Gln Arg Ile His Thr Gly Glu Lys Pro  
20 25

<210> 10

<211> 6

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1 5

<210> 11

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<210> 12

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<210> 13

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9

<210> 14

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<212> DNA

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<223> Description of Artificial Sequence: Zinc finger-DNA  
interaction sequence

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gcgtgggcg

9

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 LIB-B Zinc finger

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 Arg Phe Ser Arg Ser Asp Glu Leu Thr Arg His Ile Arg Ile His Thr  
 20 25 30  
 Gly Gln Lys Pro  
 35

<210> 17  
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<220>  
 <223> Description of Artificial Sequence: LIB-A and



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&lt;222&gt; (18)

&lt;223&gt; Any amino acid

&lt;400&gt; 17

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1				5					10					15	

Thr	Xaa	His	Ile	Arg	Thr	His	Thr	Gly	Glu	Lys	Pro
			20					25			

&lt;210&gt; 18

&lt;211&gt; 28

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Description of Artificial Sequence: LIB-B Zinc finger 3

&lt;220&gt;

&lt;221&gt; MOD\_RES

&lt;222&gt; (12)

&lt;223&gt; Any amino acid

&lt;220&gt;

&lt;221&gt; MOD\_RES

&lt;222&gt; (14)

&lt;223&gt; Any amino acid

&lt;400&gt; 18

Phe	Ala	Cys	Asp	Ile	Cys	Gly	Arg	Lys	Phe	Ala	Xaa	Ser	Xaa	Asp	Arg
1				5					10					15	

Lys	Arg	His	Thr	Lys	Ile	His	Leu	Arg	Gln	Lys	Asp
			20					25			

&lt;210&gt; 19

&lt;211&gt; 28

&lt;212&gt; PRT

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&lt;223&gt; Description of Artificial Sequence: LIB-A Zinc

finger 3

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Phe	Ala	Cys	Asp	Ile	Cys	Gly	Arg	Lys	Phe	Ala	Xaa	Xaa	Xaa	Xaa	Arg
1				5					10					15	

Lys	Arg	His	Thr	Lys	Ile	His	Leu	Arg	Gln	Lys	Asp
			20				25				

<210> 20

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Arg	Leu	Glu	Tyr
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<210> 21

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<400> 21

Arg	Ser	Glu	Asp
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<210> 22

<211> 4

<212> PRT

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peptide

<400> 22

Arg His Thr His

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<210> 23

<211> 4

<212> PRT

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peptide

<400> 23

Arg Ser Ser Glu

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<210> 24

<211> 4

<212> PRT

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<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 24

Arg Ser Ser Ala

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<210> 25

<211> 4

<212> PRT

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<400> 25

Gln Val Thr Thr

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<210> 26  
<211> 4  
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<223> Description of Artificial Sequence: Zinc finger  
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<400> 26  
Gln Ser Gly Asp  
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<210> 27  
<211> 4  
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<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 27  
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<210> 28  
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<223> Description of Artificial Sequence: Zinc finger  
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<400> 28  
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<210> 29  
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<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 29

Gln Arg Ala Ser  
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<210> 30

<211> 4

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<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 30

Gln Ser Thr Ser  
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<210> 31

<211> 4

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<400> 31

Ser Ser Gly Asp  
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<210> 32

<211> 4

<212> PRT

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<223> Description of Artificial Sequence: Zinc finger  
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Ser Ala Ser Ala  
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<210> 33  
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<400> 33  
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<210> 36

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<210> 38  
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<210> 40

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<210> 41

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<210> 42

<211> 4

<212> PRT

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<210> 53  
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Thr Ser Arg Asp

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<210> 54

<211> 4

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Gln Arg Gly Ala

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<210> 55

<211> 4

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Gln Ser Thr Thr

1

<210> 56

<211> 4

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<213> Artificial Sequence

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<223> Description of Artificial Sequence: Zinc finger  
peptide

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<400> 56  
Thr Ser Ser Ser  
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<210> 57  
<211> 4  
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<400> 57  
Ser Ser Ser Thr  
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<210> 58  
<211> 4  
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Thr Ile Ser Asn  
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<210> 59  
<211> 4  
<212> PRT  
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<400> 59  
Thr Ser Thr Ala  
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<210> 60

<211> 4  
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<400> 60  
Thr Ser Ser Leu  
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<210> 61  
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<220>  
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<210> 62  
<211> 4  
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<220>  
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<400> 62  
Thr Ser Asn Ser  
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<210> 63  
<211> 4  
<212> PRT  
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<220>  
<223> Description of Artificial Sequence: Zinc finger

peptide

<400> 63  
Gly Ser Asn Asp  
1

<210> 64  
<211> 4  
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<220>  
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Thr Thr Ser Ser  
1

<210> 65  
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Thr Ala Gly Ser  
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<210> 66  
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<220>  
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Thr Thr Ser Ser  
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<210> 67  
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peptide

<400> 67  
Thr Ser Ser Ala  
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<210> 68  
<211> 4  
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peptide

<400> 68  
Leu Ser Thr Thr  
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<210> 69  
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<400> 69  
Leu Ser Ser Thr  
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<210> 70  
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peptide

<400> 70  
Asp Pro His Asn  
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<210> 71  
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<220>  
<223> Description of Artificial Sequence: Zinc finger  
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<400> 71  
His Ser Lys Ser  
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<210> 72  
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<400> 72  
His Arg Gln Asn  
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<210> 73  
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<220>  
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<400> 73  
Asp Arg Ala Asn

1

<210> 74  
<211> 4  
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<400> 74  
Asp Arg Ala Asn  
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<210> 75  
<211> 4  
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<400> 75  
Arg Ser Gln Asp  
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<210> 76  
<211> 4  
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<223> Description of Artificial Sequence: Zinc finger  
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<400> 76  
Gln Val Gly His  
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<210> 77  
<211> 4  
<212> PRT

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<400> 77

Gln Leu Ala Thr

1

<210> 78

<211> 4

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Zinc finger  
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<400> 78

Thr Ser Gln Ala

1

<210> 79

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 79

Thr Ser Ala Ser

1

<210> 80

<211> 4

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 80  
Leu Ala Gln Thr  
1

<210> 81  
<211> 4  
<212> PRT  
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<220>  
<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 81  
Arg Ser Arg Asp  
1

<210> 82  
<211> 4  
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<220>  
<223> Description of Artificial Sequence: Zinc finger  
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<400> 82  
Arg Leu Arg Asp  
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<210> 83  
<211> 4  
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peptide

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His Leu Ala Thr  
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<210> 84

<211> 4  
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<400> 84  
His Leu Thr Thr  
1

<210> 85  
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<400> 85  
Val Gly His His  
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<210> 86  
<211> 4  
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<220>  
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peptide

<400> 86  
His Pro Ala Thr  
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<210> 87  
<211> 4  
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<220>  
<223> Description of Artificial Sequence: Zinc finger

peptide

<400> 87

His Pro Ala Asn

1

<210> 88

<211> 4

<212> PRT

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<220>

<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 88

His His Ser Asn

1

<210> 89

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 89

Asp Ser Arg Ala

1

<210> 90

<211> 4

<212> PRT

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<220>

<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 90

Lys Ser Ser Asp

1

<210> 91  
<211> 4  
<212> PRT  
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<220>  
<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 91  
Ser Ser Ser Asp  
1

<210> 92  
<211> 4  
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<220>  
<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 92  
Arg Ser His Asp  
1

<210> 93  
<211> 4  
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<220>  
<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 93  
Arg Ser Ser Tyr  
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<210> 94  
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